

5' C CCT GAG AGC GTC CCG CAG TGG CTG GAG CCC TGG GCG CTG CAA ACG TGT CCC 54

9 18 27 36 45

63 72 81 90 99 108

GCC GGG TCC CCG AGC GTC CCG CGC CCT CGC CCC GCC ATG CTC CTG CTG CTG GGG

117 126 135 144 153 162

CTG TGC CTG GGG CTG TCC CTG TGT GTG GGG TCG CAG GAA GAG GCG CAG AGC TGG

L C L G L S L C V G S Q E E A Q S W

171 180 189 198 207 216

GGC CAC TCT TCG GAG CAG GAT GGA CTC AGG GTC CCG AGG CAA GTC AGA CTG TTG

G H S S E Q D G L R V P R Q V R L L

225 234 243 252 261 270

CAG AGG CTG AAA ACC AAA CCT TTG ATG ACA GAA TTC TCA GTG AAG TCT ACC ATC

Q R L K T K P L M T E F S V K S T I

279 288 297 306 315 324

ATT TCC CGT TAT GCC TTC ACT ACG GTT TCC TGC AGA ATG CTG AAC AGA GCT TCT

I S R Y A F T T V S C R M L N R A S

333 342 351 360 369 378

GAA GAC CAG GAC ATT GAG TTC CAG ATG CAG ATT CCA GCT GCÀ GCT TTC ATC ACC

E D Q D I E F Q M Q I P A A A F I T

FIGURE 1A

387 AAC TTC ACT ATG CTT ATT GGA GAC AAG GTG TAT CAG GGC GAA ATT ACA GAG AGA 432  
 N F T M L I G D K V Y Q G E I T E R

441 GAA AAG AAG AGT GGT GAT AGG GTA AAA GAG AAA AGG AAT AAA ACC ACA GAA GAA 486  
 E K K S G D R V K E K R N K T T E E

495 AAT GGA GAG AAG GGG ACT GAA ATA TTC AGA GCT TCT GCA GTG ATT CCC AGC AAG 540  
 N G E K G T E I F R A S A V I P S K

549 GAC AAA GCC GCC TTT TTC CTG AGT TAT GAG GAG CTT CTG CAG AGG CGC CTG GGC 594  
 D K A A F F L S Y E E L L Q R R L G

603 AAG TAC GAG CAC AGC ATC AGC GTG CGG CCC CAG CAG CTG TCC GGG AGG CTG AGC 648  
 K Y E H S I S V R P Q Q L S G R L S

657 GTG GAC GTG AAT ATC CTG GAG AGC GCG GGC ATC GCA TCC CTG GAG GTG CTG CCG 702  
 V D V N I L E S A G I A S L E V L P

711 CTT CAC AAC AGC AGG CAG AGG GGC AGT GGC CGC GGG GAA GAT GAT TCT GGG CCT 756  
 L H N S R R Q R G S G R G E D D S G P

FIGURE 1B

765	774	783	792	801	810
CCC CCA TCT	ACT GTC ATT AAC CAA AAT GAA ACA TTT GCC AAC ATA ATT TTT AAA				
P P S T V I N Q N E T F A N I I F K					
819	828	837	846	855	864
CCT ACT GTA GTA CAA CAA GCC AGG ATT GCC CAG AAT GGA ATT TTG GGA GAC TTT					
P T V V Q Q A R I A Q N G I L G D F					
873	882	891	900	909	918
ATC ATT AGA TAT GAC GTC AAT AGA GAA CAG AGC ATT GGG GAC ATC CAG GTT CTA					
I I R Y D V N R E Q S I G D I Q V L					
927	936	945	954	963	972
AAT GGC TAT TTT GTG CAC TAC TTT GCT CCT AAA GAC CTT CCT CCT TTA CCC AAG					
N G Y F V H Y F A P K D L P P L P K					
981	990	999	1008	1017	1026
AAT GTG GTA TTC GTG CTT GAC AGC AGT GCT TCT ATG GTG GGA ACC AAA CTC CGG					
N V V F V L D S S A S M V G T K L R					
1035	1044	1053	1062	1071	1080
CAG ACC AAG GAT GCC CTC TTC ACA ATT CTC CAT GAC CTC CGA CCC CAG GAC CGT					
Q T K D A L F T I L H D L R P Q D R					
1089	1098	1107	1116	1125	1134
TTC AGT ATC ATT GGA TTT TCC AAC CGG ATC AAA GTA TGG AAG GAC CAC TTG ATA					
F S I I G F S N R I K V W K D H L I					

FIGURE 1C

# FIGURE 1D

1143	1152	1161	1170	1179	1188
TCA GTC ACT CCA GAC AGC ATC AGG GAT GGG AAA GTG TAC ATT CAC CAT ATG TCA					
S V T P D S I R D G K V Y I H H M S					
1197	1206	1215	1224	1233	1242
CCC ACT GGA GGC ACA GAC ATC AAC GGG GCC CTG CAG AGG GCC ATC AGG CTC CTC					
P T G G T D I N G A L Q R A I R L L					
1251	1260	1269	1278	1287	1296
AAC AAG TAC GTG GCC CAC AGT GGC ATT GGA GAC CGG AGC GTG TCC CTC ATC GTC					
N K Y V A H S G I G D R S V S L I V					
1305	1314	1323	1332	1341	1350
TTC CTG ACG GAT GGG AAG CCC ACG GTC GGG GAG ACG CAC ACC CTC AAG ATC CTC					
F L T D G K P T V G E T H T L K I L					
1359	1368	1377	1386	1395	1404
AAC AAC ACC CGA GAG GCC GCC CGA GGC CAA GTC TGC ATC TTC ACC ATT GGC ATC					
N T R E A A R G Q V C I F T I G I					
1413	1422	1431	1440	1449	1458
GGC AAC GAC GTG GAC TTC AGG CTG CTG GAG AAA CTG TCG CTG GAG AAC TGT GGC					
G N D V D F R L L L E K L S L E N C G					
1467	1476	1485	1494	1503	1512
CTC ACA CGG CGC GTG CAC GAG GAG GAG GAC GCA GGC TCG CAG CTC ATC GGC TTC					
L T R R V H E E E D A G S Q L I G F					

FIGURE 1D

# Figure 1E

1521	TAC GAT GAA	1530	ATC AGG ACC	1539	CCG CTC CTC	1548	TCT GAC ATC	1557	CGC ATC GAT	1566	TAT CCC CCC
	Y D E I R T P L L S D I R I D Y P P										
1575	AGC TCA GTG	1584	GTG CAG GCC	1593	ACC AAG ACC	1602	CTG TTC CCC	1611	AAC TAC TTC	1620	AAC GGC TCG
	S S V V Q A T K T L F P N Y F N G S										
1629	GAG ATC ATC	1638	ATT GCG GGG	1647	AAG CTG GTG	1656	GAC AGG AAG	1665	CTG GAT CAC	1674	CTG CAC GTG
	E I I I A G K L V D R K L D H L H V										
1683	GAG GTC ACC	1692	GCC AGC AAC	1701	AGT AAG AAA	1710	TTC ATC ATC	1719	CTG AAG ACA	1728	GAT GTG CCT
	E V T A S N S K K F I I L K T D V P										
1737	GTG CGG CCT	1746	CAG AAG GCA	1755	GGG AAA GAT	1764	GTC ACA GGA	1773	AGC CCC AGG	1782	CCT GGA GGC
	V R P Q K A G K D V T G S P R P G G										
1791	GAT GGA GAG	1800	GGG GAC ACC	1809	AAC CAC ATC	1818	GAG CGT CTC	1827	TGG AGC TAC	1836	CTC ACC ACA
	D G E G D T N H I E R L W S Y L T T										
1845	AAG GAG CTG	1854	CTG AGC TCC	1863	TGG CTG CAA	1872	AGT GAC GAT	1881	GAA CCG GAG	1890	AAG GAG CGG
	K E L L S S W L Q S D D E P E K E R										

FIGURE 1E

# Figure 1F

1899	CTG CGG CAG CGG GCC CAG GCC CTG GCT GTG AGC TAC CGC TTC CTC ACT CCC TTC	1908	1917	1926	1935	1944
	L R Q R A Q A L A V S Y R F L T P F					
1953	ACC TCC ATG AAG CTG AGG GGG CCG GTC CCA CGC ATG GAT GGC CTG GAG GAG GCC	1962	1971	1980	1989	1998
	T S M K L R G P V P R M D G L E E A					
2007	CAC GGC ATG TCG GCT GCC ATG GGA CCC GAA CCG GTG GTG CAG AGC GTG CGA GGA	2016	2025	2034	2043	2052
	H G M S A A M G P E P V V Q S V R G					
2061	GCT GGC ACG CAG CCA GGG CCT TTG CTC AAG AAG CCA TAC CAG CCA AGA ATT AAA	2070	2079	2088	2097	2106
	A G T Q P G P L L K K P Y Q P R I K					
2115	ATC TCT AAA ACA TCA GTG GAT GGT GAT CCC CAC TTT GTT GTG GAT TTC CCC CTG	2124	2133	2142	2151	2160
	I S K T S V D G D P H F V V D F P L					
2169	AGC AGA CTC ACC GTG TGC TTC AAC ATT GAT GGG CAG CCC GGG GAC ATC CTC AGG	2178	2187	2196	2205	2214
	S R L T V C F N I D G Q P G D I L R					
2223	CTG GTC TCT GAT CAC AGG GAC TCT GGT GTC ACA GTG AAC GGA GAG TTA ATT GGG	2232	2241	2250	2259	2268
	L V S D H R D S G V T V N G E L I G					

FIGURE 1F

2277	2286	2295	2304	2313	2322
GCA CCC GCC CCT CCA AAT GGC CAC AAG AAA CAG CGC ACT TAC TTG CGC ACT ATC					
A P A P P N G H K K Q R T Y L R T I					
2331	2340	2349	2358	2367	2376
ACC ATC CTC ATC AAC AAG CCA GAG AGA TCT TAT CTC GAG ATC ACA CCG AGC AGA					
T I L I N K P E R S Y L E I T P S R					
2385	2394	2403	2412	2421	2430
GTC ATC TTG GAT GGT GGG GAC AGA CTG GTG CTC CCC TGC AAC CAG AGT GTG GTG					
V I L D G G D R L V L P C N Q S V V					
2439	2448	2457	2466	2475	2484
GTG GGG AGC TGG GGG CTG GAG GTG TCC GTG TCT GCC AAC GCC AAT GTC ACC GTC					
V G S W G L E V S S A N A N V T V					
2493	2502	2511	2520	2529	2538
ACC ATC CAG GGC TCC ATA GCC TTT GTC ATC CTC ATC CAC CTC TAC AAA AAG CCG					
T I Q G S I A F V I L I H L Y K P					
2547	2556	2565	2574	2583	2592
GCG CCC TTC CAG CGA CAC CAC CTG GGT TTC TAC ATT GCC AAC AGC GAG GGC CTT					
A P F Q R H H L G F Y I A N S E G L					
2601	2610	2619	2628	2637	2646
TCC AGC AAC TGC CAC GGA CTG CTG GGT CAG TTC CTG AAT CAG GAT GCC AGA CTC					
S S N C H G L L G Q F L N Q D A R L					

FIGURE 1G

# Figure 1H

2655	2664	2673	2682	2691	2700
ACA GAA GAC CCT GCA GGG CCC AGC CAG AAC CTC ACT CAC CCT CTG CTC CTT CAG					
T E D P A G P S Q N L T H P L L L Q					
2709	2718	2727	2736	2745	2754
GTG GGA GAG GGG CCT GAG GCC GTC CTA ACA GTG AAA GGC CAC CAA GTC CCA GTG					
V G E G P E A V L T V K G H Q V P V					
2763	2772	2781	2790	2799	2808
GTC TGG AAG CAA AGG AAG ATT TAC AAC GGG GAA GAG CAG ATA GAC TGC TGG TTT					
V W K Q R K I Y N G E E Q I D C W F					
2817	2826	2835	2844	2853	2862
GCC AGG AAC AAT GCC GCC AAA CTG ATT GAC GGG GAG TAC AAG GAT TAC CTG GCA					
A R N N A A K L I D G E Y K D Y L A					
2871	2880	2889	2898	2907	2916
TCC CAT CCA TTT GAC ACA GGG ATG ACA CTT GGC CGG GGA ATG TCC AGG GAG CTC					
S H P F D T G M T L G R G M S R E L					
2925	2934	2943	2952	2961	2970
TGA AGC TGG CAG CCT TAA AGA TGC AAG TGC ATG AAG GAC AGT GAT GTG GGG AGG					
2979	2988	2997	3006	3015	3024
CCG TGG GGC AGC TCT TTT CAT GGC TTG TAC ACG CCT CAG CTC CTG GCA ATT AGC					

FIGURE 1H



# TC5040" 6442860

3033	3042	3051	3060	3069	3078
TGG ACT CCA TGA CCC ACC CCT GGT GCA GCA TAG ATC CGA CGT CTG TCT GGG CGA					
3087	3096	3105	3114	3123	3132
AGG GTA GGG GTG GGT AGG GGC GGG AAG CCT GAG TGC AAA TGT CAT TTC CCT CTA					
3141	3150	3159	3168	3177	3186
CTG CCT CTT CCT GCC TCT CCC CAC CCT GCC CAC ATC CAC AGA GGG GAG AGA AGG					
3195	3204	3213	3222	3231	3240
GTC ATA GCT AAA TGC AAC AAA GTC TGT ATC TTG TCC CAA CCT GCT TTT CTG TTC					
3249	3258	3267	3276	3285	3294
TGT TAG CAT ATC ATA AAG TAA GCC TTT CTG GTG AAG GAA GGT TGC TAT GAA ACT					
3303	3312	3321	3330	3339	3348
TTT TTT CTT GGT GGA AAT GGC CAA GTT TAG GCA CTC TGC TTT TTG CCT TAC ACT					
3357	3366	3375	3384	3393	3402
AAT GCT TAG AAA GCT GTC TTT TCA GTG GTG TTG CAG CCC CCA GAT GTG TGG CCA					
3411	3420	3429	3438	3447	3456
ACC TCT GCT GCA AAG GAA TCT CTT GCT GAG TCC AGG CCA CCA ATC AGG CAA ATA					
3465	3474	3483	3492	3501	3510
GCC CAT ACA TTT GAT CGT TGT AAA CCA TGA AGT CTT TTC TTG CAA GAC GTT TTT					

FIGURE 11

# Figure 1J

3519	3528	3537	3546	3555	3564
CTT CTG CTG TGG TAT CTT GCC CTT AAA AAT TAG TTT TCA TTA AAA AGA AAT TTG					
3573	3582	3591	3600	3609	3618
ATT GAA AAT TAA AAA AAA ATA AAA AAA GAA AAA AAA GAA GAA AAA AAT					
3627	3636				
AAA AAA AAA AAA AAA AA 3'					

FIGURE 1J

1	M	L	L	L	G	-	-	-	-	-	L	C	L	G	L	S	L	C	V	G	S	Q	E	E	A	Q	S	W	G	688183		
1	M	K	R	L	T	C	-	-	-	-	F	I	C	F	F	L	S	E	V	S	G	F	E	I	P	I	N	G	L	S	GI 33985	
1	M	D	G	A	M	G	P	R	G	L	L	C	M	Y	L	V	S	L	-	L	I	L	Q	A	M	P	A	L	G	GI 33989		
1	M	-	-	-	-	-	-	-	-	-	-	-	-	-	V	A	L	S	H	L	-	G	S	A	L	Q	L	G	S	L	C	GI 288563
26	H	S	S	E	Q	D	G	L	-	-	-	-	-	-	-	-	-	R	V	P	R	Q	V	R	L	L	Q	R	L	-	-	688183
28	E	F	V	D	Y	E	D	L	V	E	L	A	P	G	K	F	Q	L	V	A	E	N	R	Y	Q	R	S	L	P	GI 33985		
30	-	-	-	-	-	-	-	-	-	-	S	A	T	G	R	S	K	S	S	E	-	-	-	-	-	-	-	-	-	-	-	GI 33989
18	-	-	-	-	-	-	-	-	-	-	F	P	R	S	P	F	R	L	L	G	-	-	-	-	-	-	-	-	-	-	-	GI 288563
46	-	K	T	K	P	L	M	T	E	-	-	-	-	-	-	-	-	-	F	S	V	K	S	T	I	I	S	R	Y	A	F	688183
58	G	E	S	E	E	M	M	E	E	V	D	Q	V	T	L	Y	S	Y	K	V	Q	S	T	I	T	S	R	M	A	T	GI 33985	
45	D	T	A	-	-	-	-	-	-	V	D	G	V	F	I	R	S	L	K	V	N	C	K	V	T	S	R	F	A	H	GI 33989	
33	E	G	V	-	-	-	-	-	-	A	N	G	I	E	V	S	T	K	I	N	S	K	V	T	S	R	F	A	H	GI 288563		
67	T	T	V	S	C	R	M	L	N	R	A	S	E	D	Q	D	I	E	F	Q	M	Q	I	P	A	A	A	F	I	T	688183	
88	T	M	I	Q	S	K	V	V	N	N	S	P	Q	P	Q	N	V	V	F	D	V	Q	I	P	K	G	A	F	I	S	GI 33985	
69	Y	V	V	T	S	Q	V	V	N	T	A	N	E	A	R	E	V	A	F	D	L	E	I	P	K	T	A	F	I	S	GI 33989	
57	N	V	V	T	M	R	A	V	N	R	A	D	T	A	K	E	V	S	F	D	V	E	L	P	K	T	A	F	I	T	GI 288563	
97	N	F	T	M	L	I	G	D	K	V	Y	Q	G	E	I	T	E	R	E	K	K	S	G	D	R	V	K	E	K	R	688183	
118	N	F	S	M	T	V	D	G	K	T	F	R	S	S	I	K	E	K	T	V	G	R	A	L	Y	A	Q	A	R	A	GI 33985	
99	D	F	A	V	T	A	D	G	N	A	F	I	G	D	I	K	D	K	V	T	A	W	K	Q	Y	R	K	A	A	I	GI 33989	
87	N	F	T	L	T	I	D	G	V	T	Y	P	G	N	V	K	E	K	E	V	A	K	K	Q	Y	E	K	A	V	S	GI 288563	

FIGURE 2A

127	N	K	T	T	E	E	-	-	-	N	G	E	K	G	T	E	I	F	R	A	S	A	V	I	P	S	K	D	K	A	688183	
148	K	G	K	T	A	G	L	V	R	S	A	L	D	M	E	N	F	R	T	E	V	N	V	L	P	G	A	K	V	GI 33985		
129	S	G	E	N	A	G	L	V	R	A	S	G	R	T	M	E	Q	F	T	I	H	L	T	V	N	P	Q	S	K	V	GI 33989	
117	Q	G	K	T	A	G	L	V	K	A	S	G	R	K	L	E	K	F	T	V	S	V	N	V	A	A	G	S	K	V	GI 288563	
154	A	F	L	S	Y	E	E	L	L	Q	R	R	L	G	K	Y	E	H	S	I	S	V	R	P	Q	Q	L	S	G	688183		
178	Q	F	E	L	H	Y	Q	E	V	K	W	R	K	L	G	S	Y	E	H	R	I	Y	L	Q	P	G	R	L	A	K	GI 33985	
159	T	F	Q	L	T	Y	E	E	V	L	K	R	N	H	M	Q	Y	E	I	V	I	K	V	P	K	Q	L	V	H	GI 33989		
147	T	F	E	L	T	Y	E	E	L	L	K	R	H	K	G	K	Y	E	M	Y	L	K	V	Q	P	K	Q	L	V	K	GI 288563	
184	R	L	S	V	D	V	N	I	L	E	S	A	G	I	A	S	L	E	V	L	P	L	H	N	S	R	Q	R	G	S	688183	
208	H	L	E	V	D	V	W	V	I	E	P	Q	G	L	R	F	L	H	V	-	-	-	-	-	-	-	-	P	D	T	GI 33985	
189	H	F	E	I	D	V	D	I	F	E	P	Q	G	I	S	K	L	D	A	-	-	-	-	-	-	-	-	Q	A	S	GI 33989	
177	H	F	E	I	E	V	D	I	F	E	P	Q	G	I	S	M	L	D	A	-	-	-	-	-	-	-	-	-	E	A	S	GI 288563
214	G	R	G	E	D	S	G	P	P	P	S	T	V	I	N	Q	N	E	T	F	A	N	I	I	F	K	P	T	V	688183		
230	F	E	G	H	F	D	G	V	P	V	I	S	K	G	-	-	Q	Q	K	-	-	A	H	V	S	F	K	P	T	V	GI 33985	
211	F	L	P	K	E	L	A	A	Q	T	I	K	K	S	F	S	G	K	K	-	-	G	H	V	L	F	R	P	T	V	GI 33989	
199	F	I	T	N	D	L	L	G	S	A	L	T	K	S	F	S	G	K	K	-	-	G	H	V	S	F	K	P	S	L	GI 288563	
244	V	Q	Q	-	-	-	A	R	I	A	Q	N	G	I	L	G	D	F	I	I	R	Y	D	V	N	R	E	Q	S	I	688183	
256	A	Q	Q	R	I	C	P	S	C	R	E	T	A	V	D	G	E	L	V	V	L	Y	D	V	K	R	E	E	K	A	GI 33985	
239	S	Q	Q	Q	S	C	P	T	C	S	T	S	L	N	G	H	F	K	V	T	Y	D	V	T	R	D	E	-	I	GI 33989		
227	D	Q	Q	R	S	C	P	T	C	T	D	S	L	N	G	D	F	T	I	T	Y	D	V	N	R	E	S	-	P	GI 288563		

FIGURE 2B

271	G	D	I	Q	V	L	N	G	Y	F	V	H	Y	F	A	P	K	D	L	P	P	L	P	K	N	V	V	F	V	L	688183	
286	G	E	L	E	V	F	N	G	Y	F	V	H	F	F	A	P	D	N	L	D	P	I	P	K	N	I	L	F	V	I	GI 33985	
268	C	D	L	L	V	A	N	H	F	A	H	F	F	F	A	P	Q	N	L	T	N	M	N	K	N	V	V	F	V	I	GI 33989	
256	G	N	V	Q	I	V	N	G	Y	F	V	H	F	F	A	P	Q	Q	G	L	P	V	V	P	K	N	V	A	F	V	I	GI 288563
301	D	S	S	A	S	M	V	G	T	K	L	R	Q	T	K	D	A	L	F	T	I	L	H	D	L	R	P	Q	D	R	688183	
316	D	V	S	G	S	M	W	G	V	K	K	Q	Q	T	V	E	A	M	K	T	I	L	D	D	L	R	A	E	D	H	GI 33985	
298	D	I	S	G	S	M	R	G	Q	K	V	K	Q	T	K	E	A	L	L	K	I	L	G	D	M	Q	P	G	D	Y	GI 33989	
286	D	I	S	G	S	M	A	G	R	K	L	E	Q	T	K	E	A	L	L	R	I	L	E	D	M	K	E	E	D	Y	GI 288563	
331	F	S	I	I	G	F	S	N	R	I	K	V	W	K	D	H	L	I	S	V	T	P	D	S	I	R	D	G	K	V	688183	
346	F	S	V	I	D	F	N	Q	N	I	R	T	W	R	N	D	L	F	Q	L	Q	K	H	R	L	Q	I	A	K	R	GI 33985	
328	F	D	L	V	L	F	G	T	R	V	Q	S	W	K	G	S	L	V	Q	A	S	E	A	N	L	Q	A	A	Q	D	GI 33989	
316	L	N	F	I	L	F	S	G	D	V	S	T	W	K	E	H	L	V	Q	A	T	P	E	N	L	Q	E	A	R	T	GI 288563	
361	Y	I	H	H	M	S	P	T	G	G	T	D	I	N	G	A	L	Q	R	A	I	R	L	L	N	K	Y	V	A	H	688183	
376	Y	I	E	K	I	Q	P	S	G	G	T	N	I	N	E	A	L	L	R	A	I	F	I	L	N	E	A	N	N	L	GI 33985	
358	F	V	R	G	F	S	L	D	E	A	T	N	L	N	G	G	L	L	R	G	I	E	I	L	N	Q	V	Q	E	S	GI 33989	
346	F	V	K	S	M	E	D	K	G	M	T	N	I	N	D	G	L	L	R	G	I	S	M	L	N	K	A	R	E	E	GI 288563	
391	S	G	I	G	D	R	S	V	S	L	I	V	F	L	T	D	G	K	P	T	V	G	E	T	H	T	L	K	I	L	688183	
406	G	L	L	D	P	N	S	V	S	L	I	I	L	V	S	D	G	D	P	T	V	G	E	L	K	L	S	K	I	Q	GI 33985	
388	L	P	E	L	S	N	H	A	S	I	L	I	M	L	T	D	G	D	P	T	E	G	V	T	D	R	S	Q	I	L	GI 33989	
376	H	R	I	P	E	R	S	T	S	I	V	I	M	L	T	D	G	D	A	N	V	G	E	S	R	P	E	K	I	Q	GI 288563	

FIGURE 2C

421	N	N	T	R	E	A	A	R	G	Q	V	C	I	F	T	I	G	I	G	N	D	V	D	F	R	L	L	E	K	L	688183	
436	K	N	V	K	E	N	I	Q	D	N	I	S	L	F	S	L	G	M	G	F	D	V	D	Y	D	F	L	K	R	L	GI 33985	
418	K	N	V	R	N	A	I	R	G	R	F	P	L	Y	N	L	G	F	G	H	N	V	D	F	N	F	L	E	V	M	GI 33989	
406	E	N	V	R	N	A	I	G	G	K	F	P	L	Y	N	L	G	F	G	N	N	L	N	Y	N	F	L	E	N	M	GI 288563	
451	S	L	E	N	C	G	L	T	R	R	V	H	E	E	D	A	G	S	Q	L	I	G	F	Y	D	E	I	R	T	688183		
466	S	N	E	N	H	G	I	A	Q	R	I	Y	G	N	Q	D	T	S	S	Q	L	K	K	F	Y	N	Q	V	S	T	GI 33985	
448	S	M	E	N	N	G	R	A	Q	R	I	Y	E	D	H	D	A	T	Q	Q	L	Q	G	F	Y	S	Q	V	A	K	GI 33989	
436	A	L	E	N	H	G	F	A	R	R	I	Y	E	D	S	D	A	D	L	Q	L	Q	G	F	Y	E	V	A	N	GI 288563		
481	P	L	L	S	D	I	R	I	D	Y	P	P	S	S	V	V	Q	A	T	K	T	L	F	P	N	Y	F	N	G	S	688183	
496	P	L	L	R	N	V	Q	F	N	Y	P	H	T	S	V	T	D	V	T	Q	N	N	F	H	N	Y	F	G	G	S	GI 33985	
478	P	L	L	V	D	V	D	L	Q	Y	P	Q	D	A	V	L	A	L	T	Q	N	H	H	K	Q	Y	Y	E	G	S	GI 33989	
466	P	L	L	T	G	V	E	M	E	Y	P	E	N	A	I	L	D	L	T	Q	N	T	Y	Q	H	F	Y	D	G	S	GI 288563	
511	E	I	I	A	G	K	L	V	D	R	K	L	D	H	L	H	V	E	V	T	A	S	N	S	K	K	F	I	I	688183		
526	E	I	V	V	A	G	K	F	D	P	A	K	L	D	Q	I	E	S	V	I	T	A	T	S	A	N	T	Q	L	V	GI 33985	
508	E	I	V	V	A	G	R	I	A	D	N	K	Q	S	S	F	K	A	D	V	Q	A	H	G	E	G	Q	E	F	S	GI 33989	
496	E	I	V	V	A	G	R	L	V	D	E	D	M	N	S	F	K	A	D	V	K	G	H	G	A	T	N	D	L	T	GI 288563	
541	L	K	T	D	V	P	V	R	P	Q	K	A	G	K	D	V	T	G	S	P	R	P	G	G	D	G	E	G	D	T	688183	
556	L	E	T	L	A	Q	M	-	-	-	-	-	-	-	D	D	L	Q	D	F	L	S	K	D	K	H	A	D	P	D	-	GI 33985
538	I	T	C	L	V	D	E	-	-	-	-	-	-	-	E	E	M	K	K	L	L	R	E	R	G	H	M	L	E	N	-	GI 33989
526	F	T	E	E	V	D	M	-	-	-	-	-	-	-	K	E	M	E	K	A	L	Q	E	R	D	Y	I	F	G	N	-	GI 288563

FIGURE 2D

571	NHIERLW	SYLT	TKEL	LSWL	QSDDE	PEKER	688183
579	-FTRK	LWAL	YLT	INQL	LAER	SLAPTAA	KRR
561	-HVER	LWAL	YLT	IQL	LAER	SLAPTAA	KRR
549	-YIER	LWAL	YLT	IEQL	LAER	SLAPTAA	KRR
601	L R Q R A Q A L A V S Y R F L T P F T S M K L R G P V P R M	688183					
608	I T R S I L Q M S L D H H I V T P L T S L V I E N - - E A G	GI 33985					
589	L S S Q A L R M S L D Y G F V T P L T S M S I R G M A D Q D	GI 33989					
577	L T A R A L D L S L K Y H F V T P L T S M V V T K P E D N E	GI 288563					
631	D G - - L E E A H G M S A A - - - - - M G P E P	688183					
636	D E R M L A D A P P Q D P S C C S G A L Y Y G S K V P P D S	GI 33985					
619	G L K P T I D K P S E D S P - - - - - P L - - - E M L G P R R	GI 33989					
607	D E R A I A D K P G E D A E - - - - - A - - - T P V S P A M	GI 288563					
648	V V Q S V R G A G T Q P G P L L K K P Y Q P R I K I S K T S	688183					
666	T P S W A N P S P T P V I S M L A Q G S Q V L E S T P P P H	GI 33985					
642	T F V L S A L Q P S P T H S - - S S N T Q R L - - - P D R	GI 33989					
629	S Y - L T S Y Q P P Q - - - - - - - - - - N P	GI 288563					
678	- - - V D G D P H F V V D F P L S R L T V C F N I D G Q P G	688183					
696	V M R V E N D P H F I I Y L P K S Q K N I C F N I D S E P G	GI 33985					
666	V T G V D T D P H F I I H V P Q K E D T L C F N I N E E P G	GI 33989					
641	Y Y Y V D G D P H F I I Q I P E K D D A L C F N I D E A P G	GI 288563					

FIGURE 2E

705	D	I	L	R	L	V	S	D	H	R	D	S	G	V	T	V	N	G	E	L	I	G	A	P	A	P	N	G	H	688183	
726	K	I	L	N	L	V	S	D	P	-	E	S	G	I	V	V	N	G	Q	L	V	G	A	K	K	-	-	P	N	N	GI 33985
696	V	I	L	S	L	V	Q	D	P	-	N	T	G	F	S	V	N	G	Q	L	I	G	N	K	A	R	S	P	G	Q	GI 33989
671	T	V	L	R	L	I	Q	D	A	-	V	T	G	L	T	V	N	G	Q	I	T	G	D	K	R	G	S	P	D	S	GI 288563
735	K	K	Q	R	T	Y	L	R	T	I	T	I	L	I	N	K	P	E	R	S	Y	L	E	I	T	P	S	R	V	I	688183
753	G	K	L	S	T	Y	F	G	K	L	G	F	I	F	Q	S	E	D	I	K	-	I	E	I	S	T	E	T	I	T	GI 33985
725	H	D	-	G	T	Y	F	G	R	L	G	I	A	N	P	A	T	D	F	Q	-	L	E	V	T	P	Q	N	I	T	GI 33989
700	K	T	R	K	T	Y	F	G	K	L	G	I	R	N	A	Q	M	D	F	Q	-	V	E	V	T	T	E	K	I	T	GI 288563
765	L	D	G	G	D	R	-	L	V	L	P	C	N	Q	S	V	V	G	S	W	G	L	E	V	S	V	S	A	N	688183	
782	L	S	H	G	S	S	T	F	S	L	S	W	S	D	T	A	Q	V	T	N	Q	R	V	Q	I	S	V	K	K	E	GI 33985
753	L	N	P	G	F	G	P	V	F	S	W	R	D	Q	A	V	L	R	Q	D	G	V	V	V	T	I	N	K	K	GI 33989	
729	C	G	T	G	-	R	A	S	T	F	S	W	L	D	T	V	T	Q	D	G	L	S	M	I	N	R	K	GI 288563			
794	A	N	V	T	V	T	I	Q	G	S	I	A	F	V	I	L	I	H	L	Y	K	K	P	A	P	F	Q	R	H	H	688183
812	K	V	V	T	I	T	L	D	K	E	M	S	F	S	V	L	L	H	R	V	W	K	K	H	P	V	N	V	D	F	GI 33985
783	R	N	L	V	V	S	V	D	D	G	G	T	F	E	V	V	L	H	R	V	W	K	G	S	S	V	H	Q	D	F	GI 33989
758	-	N	M	V	V	S	F	G	D	G	V	T	F	V	V	V	L	H	Q	V	W	K	K	H	P	V	H	R	D	F	GI 288563
824	L	G	F	Y	I	A	N	S	E	G	L	S	S	N	C	H	G	L	L	G	Q	F	L	N	Q	-	D	A	R	L	688183
842	L	G	I	Y	I	P	P	T	N	K	F	S	P	K	A	H	G	L	I	G	Q	F	M	Q	E	P	K	I	H	I	GI 33985
813	L	G	F	Y	V	L	D	S	H	R	M	S	A	R	T	H	G	L	L	G	Q	F	F	H	P	I	G	F	E	V	GI 33989
787	L	G	F	Y	V	V	D	S	H	R	M	S	A	Q	T	H	G	L	L	G	Q	F	F	Q	P	F	D	F	K	V	GI 288563

FIGURE 2F



853	T	E	D	P	A	G	P	S	Q	N	L	T	H	P	L	L	Q	V	G	E	G	P	E	A	V	L	T	V	K	688183		
872	F	N	E	R	P	G	K	D	P	-	-	-	-	-	-	-	-	-	-	E	K	P	E	A	S	M	E	V	K	GI 33985		
843	S	D	I	H	P	G	S	D	P	-	-	-	-	-	-	-	-	-	-	T	K	P	D	A	T	M	V	V	R	GI 33989		
817	S	D	I	R	P	G	S	D	P	-	-	-	-	-	-	-	-	-	-	T	K	P	D	A	T	L	V	V	K	GI 288563		
883	G	H	Q	V	P	V	W	K	Q	R	K	I	Y	N	G	E	-	-	-	-	E	Q	I	D	C	W	F	A	R	688183		
891	G	Q	K	L	I	I	T	R	G	L	Q	K	D	Y	R	T	D	L	V	F	G	T	D	V	T	C	W	F	V	H	GI 33985	
862	N	R	R	L	T	V	T	R	G	L	Q	K	D	Y	S	K	D	P	W	H	G	A	E	V	S	C	W	F	I	H	GI 33989	
836	N	H	Q	L	I	V	T	R	G	S	Q	K	D	Y	R	K	D	A	S	I	G	T	K	V	V	C	W	F	V	H	GI 288563	
909	N	N	A	A	K	L	I	D	G	E	Y	K	D	Y	L	A	S	H	P	F	D	T	G	M	T	L	G	R	G	M	688183	
921	N	S	G	K	G	F	I	D	G	H	Y	K	D	Y	F	V	P	Q	L	Y	-	-	-	-	-	-	-	-	-	S	F	GI 33985
892	N	N	G	A	G	L	I	D	G	A	Y	T	D	Y	I	V	P	D	I	F	-	-	-	-	-	-	-	-	-	-	-	GI 33989
866	N	N	G	E	G	L	I	D	G	V	H	T	D	Y	I	V	P	N	L	F	-	-	-	-	-	-	-	-	-	-	-	GI 288563
939	S	R	E	L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688183	
943	L	K	R	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 33985	
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 33989	
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GI 288563	

FIGURE 2G

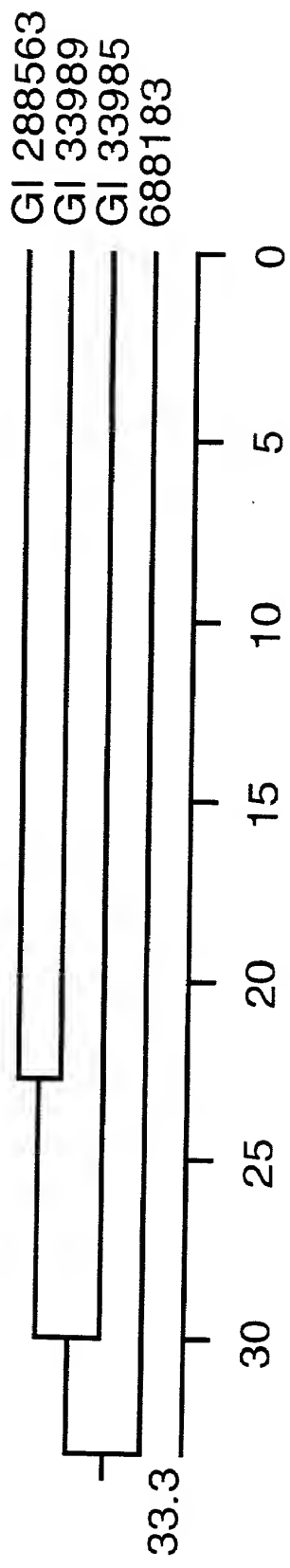


FIGURE 3